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ATGGAGTCCGGGCTACTGCAGGCCAGCGCCGGTGAGCGAGGTATCGTCCTTCACTACAA
CTACACTGGCAAGCTCCGGGAGCGCGCTACCAGCCCAGTGCCGGCTGCGTGCACG
CCGCAGTGTGCTTGGCTGTGTGCGCTTCATCGCTGGAGAACCTGGCTGTGCTCTTG
GTGCTGGGCCATCCTCGCTTCCATGCACCCATGTTCTGCTGGTAGTCTTAC
CTTGTGGACCTGCTCGCTGGGCGGCACGCCAACATCCTGCTGTCCGGCG
TCACATTGCGCCTGTCGCCTGCGCTCTGGTTGCGCGAAGGGGTGTCTCGTGGCG
CTCGCAGCGTCGGTGCTGAGCCTCTGCCATTGCTCTAGAGGCCACCTTACCATGGC
CCGTCGTGGACCCGCCCTGCCAGTCGCGCTCGCACGCTGGCGATGGCGTGGCG
CCTGGGCTTGTGCTGCTGGGCTGCTGCCCGCCTGGCTGGAACTGCTTGGGA
CGCCTGGAAGCCTGCTCCACCGTGCTGCCGCTCACGCCAACGCTATGTGCTCTTG
CGTGCTGGCCTTCCATGGCATCTGGCTGCCATCTGTGCGCTATGCAAGGATTACT
GTCAGGTGCGGCCAACGCGCGTCGCCTGCCGGCGCTGGTCCGTAGGCCACG
TCCTCCTCGCGATCCGGCACAGCCACGGTCGTTGCCCTGCTCCGACGCTTAGCGT
GGTGCTCCTGGCCTCGTGGCCTGCTGGGACCTCTATTCTCTGCTATTACTGGATG
TCGCGTGCCTGCCAGCCCCCGCGTGTGCTGTGCTGCAAGCCGATCCCTGGTCTGG
GCCATGGCTAACTCGCTGCTGAATCCTATCATCACACCTCACCAACCGAGACCTGCG
CCACGCCCTGAGGCTGCTCTGCTGTGGCCGGACCTGCAACCAAGACTCCTCCA
ACAGTTGCAGCGATCCCCAAGTGCTGTTGGCCTCCGGTGGAGGCCTGCGACGCTGC
CTGCCACCAACCTGGATCGCAGCTAGCCCATCAGAACACTCGTGTCCCCAGCGGG
CGGGATGGACACCAGCTGCTCCACTGGCAGTCCGGAGCAGCAACCGCCAACCGGACCC
TGGTGCGCTGATGCTACAGACTGA

FIG.1

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MESGLLRPAPVSEVIVLHYNYTGKLRGARYQPGAGLRAAAVCLAVCAF
IVLENLAVLLVLGRHPRFHAPMFLLLGSLTSDLLAGAAYATNILLSGP
LTLLRLSPALWFAREGGVFVALAASVLSLLAIALERHLMARRGPAPAAS
RARTLAMAVAAWGLSLLLGLLPALGWNCAGRLEACSTVPLYAKAYVLF
CVLAFLGILAAICALYARIYCQVRANARRIRAGPGSRRATSSSRHTP
RSLALLRTLSVVLAFVACWGPLFLLLLLDVACPARACPVLQADPFLG
LAMANSLLNPIIYTFTNRDLRHALLRLLCCGRGPCNQDSSNSLQRSPSA
VGPSGGGLRRCLPPTLDRSSSPSEHSCPQRDGMDTSCSTGSPGAATANR
TLVPDATD

FIG.2

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1	M E S G L	- - - - -	L R P A P V S	- - -	E V I V L H Y N Y T G K L R G A R Y Q P G A G L R A D	rB1C3R.PR
1	M V S	- T S I P E V K A L R S S V S D Y G N Y D I I V R H Y N Y T G K L N I G A - E K D H G I K L T	mEDG1R.PR			
1	M V S	S T S I P V V K A L R S Q V S D Y G N Y D I I V R H Y N Y T G K L N I G V - E K D H G I K L T	mEDG1R.PR			
10						
20						
30						
40	A A V C L A V C A F I V L E N L A V L L V L G R H P R F H A P M F L L G S L T L S D L L A G A A Y	rB1C3R.PR				
49	S V V F I L I C C F I I L E N I F V L L T I W K T K K F H R P M Y Y F I G N L A L S D L L A G V A Y	mEDG1R.PR				
50	S V V F I L I C C C L I I L E N I F V L L T I W K T K K F H R P M Y Y F I G N L A L S D L L A G V A Y	rEDG1R.PR				
60						
70						
80						
90	A T N I L L S G P L T I R L S P A L W F A R E G G V F V A L A S V U L S L L A I A L E R H L T M A R	rB1C3R.PR				
99	T A N L L L S G A T T Y K L T P A Q W F L R E G S M E V A L S A S V F S L L A I A I E R Y I T M L K	mEDG1R.PR				
100	T A N L L L S G A T T Y K L T P A Q W F L R E G S M E V A L S A S V F S L L A I A I E R Y I T M L K	rEDG1R.PR				
10						
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						
120						
130						
140	R G P A P A A S R A R T L A M A V A A W G L S L L G L P A L G W N C L G R L E A C S T V I P L Y	rB1C3R.PR				
149	M K L H N G S N S S R S F L L I S A C W V I S L I L G G L P S M G W N C I S S L S S C S T V I P L Y	mEDG1R.PR				
150	M K L H N G S N S S R S F L L I S A C W V I S L I L G G L P I M G W N C I S S L S S C S T V I P L Y	rEDG1R.PR				
150						
160						
170						
180						
190						
199	A K A Y V L F C V L A F L G I L A A I C A L Y A R I Y C Q V R A N A R R L R A G P G S R R A T S S S	rB1C3R.PR				
200	H K H Y I L F C T T V F T L L L S I A I L Y C R I Y S L V R T R S R R L - - - - T F R K N I S K mEDG1R.PR	mEDG1R.PR				
210	H K H Y I L F C T T V F T L L L S I V I L Y C R I Y S L V R T R S R R L - - - - T F R K N I S K rEDG1R.PR	rEDG1R.PR				
220						
230						
240						
250						

FIG. 3A

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260	270	280	290	300		
240 R S R H T P R S L A L L R T L S V V L L A E V A C W G P L F L L D V A C P A R A C P V I L L Q A rB1C3R.pr	241 G S R S S E K S S L A L L K T V I V L S V F I A C W A P L E F I L L L D V G C K A K T C D I L Y K A mEDG1R.pr	242 G S R S S E K S S L A L L K T V I V L S V F I A C W A P L E F I L L L D V G C K A K T C D I L Y K A rEDG1R.pr	243 A S R S S E K S S L A L L K T V I V L S V F I A C W A P L E F I L L L D V G C K A K T C D I L Y K A rEDG1R.pr			
290 D P F L G L A M A N S L L N P I I Y T F T N R D L R H A L L R L L C C G R G P C N Q D S S N S L Q R rB1C3R.pr	291 E Y F L V L A V L N S G T N P I I Y T L T N K E M R R A F I R I V S C C K - - C P N - - - - - mEDG1R.pr	292 E Y F L V L A V L N S G T N P I I Y T L T N K E M R R A F I R I I S C C K - - C P N - - - - - rEDG1R.pr				
310 320 330 340 350						
294 E Y F L V L A V L N S G T N P I I Y T L T N K E M R R A F I R I V S C C K - - C P N - - - - - mEDG1R.pr	295 E Y F L V L A V L N S G T N P I I Y T L T N K E M R R A F I R I I S C C K - - C P N - - - - - rEDG1R.pr					
360 370 380 390 400						
340 S P S A V G P S G G G L R R C L P P T L D R S S S P S E H S C - P Q R D G M D T S C S T G S P G A A rB1C3R.pr	341 334 - - - - G D S A G K F K R P I I P G M E F S R S K S D N S S H P Q K D D G D N P E T I M S S G N V mEDG1R.pr	342 335 - - - - G D S A G K F K R P I I P G M E F S R S K S D N S S H P Q K D D G D N P E T I M S S G N V rEDG1R.pr				
389 T A N R T L V P D A T D	379 - - - - -	380 - - - - -				

FIG. 3B